MONTANA BOARD OF OIL AND GAS CONSERVATION 2536 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102 Application for Permit To: Drill X Deepen Re-enter Diversity Gas Other State: Co Zip: 80206 Operator: Prima Exploration, Inc. Address: 250 Filmore St, Suite 500 City: Denver State: CO Zip: 80206 Telephone Number: 303-755-5681 Suiffeet Location of Well (quarter-quarter and todays measurements): NW 1/4 NW 1/4 Sec. 36 T27N R59E 250' FNL 895' FWL Bakken Township, Range, and Section: T27N R59E Section 36 County: Roosevelt Elevation (indicate GL or KB): 2196' GL Size and description of drilling/spacing unit and applicable order, if any: Tempory Spacing MT Order 2021-026 Bakken Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-026 Bakken 5/20/2023 Hole Size Casing Size Weight / Foot Grade (API) Depth Sacks of Cement Type of Cement 13 1/2" 9 5/8" 36# J-55 LTC 2,200' 623 See Attached 8 3/4" 7" 32# P110 BTC 10,945' 680 See Attached Describe or attach labeled diagram of blowout proventer equipment. Indicate if air drilled or describe mud program. Please see attached programs. Operator intends to submit sundry to waive OH logs on well. OH logs will be run on Bullion 13-1-11 well on same pad. The undersigned hereby certifies that the information or trained on this application is frow and cornect. Signed (Agent) Permit Express PT 1 2027 Title Teach Program Coordinate Fermit Number Title Teach Program Coordinate Fermit Number Title Ren Gardner - Agent/Pet Engineer	ORM NO. 22 R 10	^{/09} SUBMIT I	N QUADRUPLICATE TO:		36.22.307 36.22.601	Lease Name	e :	RECEIVED	
Drill X Deepen Re-enter Other 13-1-2H Well Number: MONTANA BOARD OF OIL GAS CONSERVATION * BILLI Operator: Prima Exploration, Inc. Address: 250 Filmore St, Suite 500 City: Denver St, Suite 500 Telephone Number: 303-755-5681 Surface Location of Well (quarter-quarter and tootage measurements): N/A Surface Location of Well (quarter-quarter and tootage measurements): Dipocation of Well (quarter-quarter and tootage measurements): Bakken Township, Range, and Section: T27N R59E Section 36 County: Roosevelt Elevation (indicate GL or KB): 2196' GL Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken Tempory Spacing MT Order 2021-028 Bakken Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date: Tempory Spacing MT Order 2021-028 Bakken 13 1/2" 9 5/8" 36# J-55 LTC 2,200' 623 See Attached 8 3/4" 7" 32# P110 BTC 2,200' 623 See Attached 6" 4 1/2" 13.5# P110 BTC 26,2303' 855 See Attached Describe Proposed Operations: Operator intends to submit sundry to walve OH logs on well. OH logs will be run on Bullion 13-1-11 H well on same pad. Permit Expires SEP 1 5 2027 The undersigned hereby certifies that the Information contained on this application is true and correct: Signed (Agent	MONT	ANA BOARD OF	OIL AND GAS CO		00.22,001	Bullion			
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Other 13-1-2H GAS CONSERVATION • BILLI COPERATOR						VIE OSASSESSES			
Address: 250 Silmore St, Suite 500 City: Denver State: CO Zip: 80206 Init Name (if applicable): N/A Dijective Formation(s): Bakken Tovnship, Range, and Section: T27N R59E Section 36 County: Roosevelt Elevation (indicate GL or KB): 2196' GL Size and description of drilling/spacing unit and applicable order, if any: Tempory Spacing MT Order 2021-026 Bakken 5/20/2023 Hole Size Casing Size Weight / Foot Grade (API) 9 5/8" 36# J-55 LTC 2,200' 623 See Attached 8 3/4" 7" 32# P110 BTC 10,945' 680 See Attached escribe Proposed Operations: Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program. Please see attached programs. Operator intends to submit sundry to waive OH logs on well. OH logs will be run on Bullion 13-1- The undersigned hereby certifies that the information contained on this application is true and correct: Signed (Agent) Permit Expires P1 1 202 Title Rep Cardrer Apart/Ret Enciroper Title Represedured Title Title Title	-	=	4				141	ONTANA BOARD OF OIL CONSERVATION • BILLI	
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elephone Number: 303-755-5681 N/A wiface Location of Well (quarter-quarier and footage measurements): N/W 1/4 NW 1/4 Sec. 36 T27N R59E 250' FNL 895' FWL proposed Total Depth and Bottom-hole Location(s) if directional or horizontal well: TD - 26,305' MD. BHL - SE 1/4 SE 1/4 Sec. 13 T26N R59E 250' FSL 550' FEL Tempory Spacing MT Order 2021-026 Bakken Township, Range, and Section: T27N R59E Section 36 County: Roosevelt Elevation (indicate GL or KB): 2196' GL Size and description of drilling/spacing unit and applicable order, if any: Tempory Spacing MT Order 2021-026 Bakken 5/20/2023 Hole Size Casing Size Weight / Foot Grade (API) 9 5/8" 36# J-55 LTC 2,200' 623 See Attached 8 3/4" 7" 32# P110 BTC 10,945' 680 See Attached 6" 4 1/2" 13.5# P110 BTC 26,2303' 855 See Attached secribe Proposed Operations: Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program. Please see attached programs. Operator intends to submit sundry to waive OH logs on well. OH logs will be run on Bullion 13-1- The undersigned hereby certifies that the information contained on this application is true and correct: Signed (Agent) Title Page Gardner - Agent/Ret Engineer Title Page Gardner - Agent/Ret Engineer Title Page Gardner - Agent/Ret Engineer	ddress: 250	Filmore St, Suite	500			Wildcat R	ichland Red	sevelt	
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Control of the contro	le Tech	Program Coon	dinator		Title	Re	en Gardner - A	gent/Pet Engineer	
IS PERMIT IS SUBJECT TO THE API Number: 25 Date 1/24/2023 ATED ON THE BACK	NDITIONS OF AF	PROVAL	1 Number: 25	2	Date	e "		-	
Telephone Number406-259-4878	TALLE OF THE BA				Tele	phone Numbe	er4	106-259-4878	
mples Required: NONE ALL FROMfeet to feet									
Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:	Core chi	ps to address below, full					vashed, dried and d	lelivered prepaid to:	
Montana Board of Oil and Gas Conservation 2535 St. Johns Avenue Billings MT 59102			iviontan a i	Duard of Ull AND GAS					



SUPPLEMENTAL INFORMATION

IAN 2 5 2023

Note: Additional information or attachments may be required by Rule or by special request.

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

- 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- 2. Attach an 8 1/2 x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a 1/2 mile radius of the well.
- 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut/fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor). Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
- 4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications.
- 5. Describe the proposed plan for the treatment and/or the disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
- 6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:

X	No additional permits needed
	310 Permit (apply through county conservation district)
	Air quality permit (apply through Montana Department of Environmental Quality)
	Water discharge permit (apply through Montana Department of Environmental Quality)
	Water use permit (apply through Montana Department of Natural Resources and Conservation)
	Solid waste disposal permit (apply through Montana Department of Environmental Quality)
	State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
	Federal drilling permit (specify agency)
	Other federal, state, county, or local permit or authorization: (specify type)

NOTICES:

- 1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
- 2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Any Changes to Approved Frac plan in APD needs to be submitted via Sundry Notice to MBOGC prior to stimulation of the well.

WARNING: Failure to comply with conditions of approval may void this permit.





	Maritho	1-Million Quantity	Sympletic County	Vallaire
70	/MERCHAL	16.414.912	1.00	Water
Eh-	22,816,000	22,816,000	2.63	Sand (Proppant)
200	37,510	4,101	1.09	BioSuite GQ123x
115	4,561	4,561	1.98	CalBreak *** 5600
100	120	13	1.11	Californi 9100
Ev.	42,419	0,207	0.91	CalSurf** 9401
10	1,000	1,000	1.25	CalVert14 P-10
10	1,000	1,000	1.25	CalVert** P-F
10	7,060	1,000	1.25	CalVent** P.S
84	235,007	16.854	1.05	CalVescTM 6621
100	21,778	2,162	1.06	DynaScale ³⁴ 3515
No.	22,420	2,500	1.07	Hydrochlone Acid
I				15
٠				
	Total Startey Most (LEQ FAR.JES.371	-	(

Trade Name	Supplier Operator and CWS	Furpore	Ingredients	Chemical AD/tract Service Number (CAS II)	Maximum fogredient Concentration in Additive (36 by mass)**	Mays per Component (LBS)	Maximum Ingredient Concentration in HF Floid (34 by onas)**	Comments
and (Proppent)	CWS	Propping Agent	Water	7732-18-5	100.00%	136,982,441	85.5189570	
ieSuite GQ123x	CWS	Biocide		Listed Below				
alBreak** 5600	CWS	Breaker		Listed Below				
alGuard TM 9100	CWS	Corresion tehibitor		Listed Below				
alSarfin 9461	CW5	Surfactant		Listed Below				
alVent* P-10	CWS	Diverting Agent		Listed Below Listed Below				
alVent* P.F	CWS	Diverting Agent		Listed Below			10880	
aiVents p.S	CWS	Diverting Agent		Listed Below				
alVisc14 6621	CWS	Friction Reducer		Listed Below				
lyzaScale** 3515	CWS	Scale Inhibitor		Listed Below				
y drochlaric Acid	CWS	Clean Perforations		Lined Belon				
			Alkyl dimedy'l benzyl ammonium chloride	68424-RS-I	2 0000			
			Ammonium Persulfate	7727-54-0	3,00%	1,120	0,000	
			Армие	64476-38-6	0.10%	4,561	R492835	
			Dionec	1302-27-8	0.00%	22,816	0.01424%	
			Cienamaldehode	104-55-2	0.10%	22,816	0.0142275	
			Cty stalline silies (Quartz)	14808-60-7	10.00%	12	0.00001/6	
			Dicthylene glycol, monomethyl ether	34590-94-X	20.00%	22,816,000	14,24358%	
			Ethoxy inted Alcohols	68171-39-5	20.00%	24	R.0007/%	
		CalSurft's 9401	Ethoxylated Alcohols, C19-16	Proprietary		12	4.000071	
			Ethyleue Givent	107-21-1	Proprietary 40.00%	18,726	daltoria	
			Formic acid	64-18-6	10.00%	48	0.0000256	
			Glutaraldehyde	111-30-8		12	S miles / N	
		CalVine** 6621	Glycol	Proprietary	12.00%	4,480	R.002.62%	
		2200 - 170	Goothite	1310-14-1	Propestary	0	#.00000%	
			Hs drochloric acid	7647-01-0	0.10%	22,816	#.01423)a	
			filies	12173-60-3	37.00%	8,296	ADSTITUTE	
			Umenise	98072-94-7	1.00%	228,160	#100%	
			Isopropy I alcohol	67-63-n	0.10%	22,816	001000	
			Methanol	67-56-1	5:00%	6	# 0000FE	
		DynaScale** 3515	Organic Acid Salt	Proprietary	68.00%	43,985	0.9274614	
		CalViscr4 6621	Organic Acid Salt	Proprietary	Proprietary	0	a coloupts	
		CalVisc ³⁴ 6621	Petroleum Distillates	Proprietary	Proprietary	0	Louis .	
			Poly factide resin	9051-89-2	Proprietary	0	0.00009%	
		CalVing*M 6621	Proprietary Amide	Proprietary	100.00%	3,000	9.00187%	
		CalVinc1* 6621	Proprietary Surfactani	Proprietary	Proprietary	0	0.000007/4	
			l'ar bases, quinolone derivs, beneyl chloride quatenized	(22180-20.2	Proprietary:	0	A.00000%	
		CalVine** 6621	Urca derivative	Proprietary		12	0.00007%	
				1 Markins	Proprietary	0	0.000005	
							The second second	
							RESERVED TO SECOND	

^{*}Total Water Volume sources may loclude fresh mater, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%
listed was obtained from the